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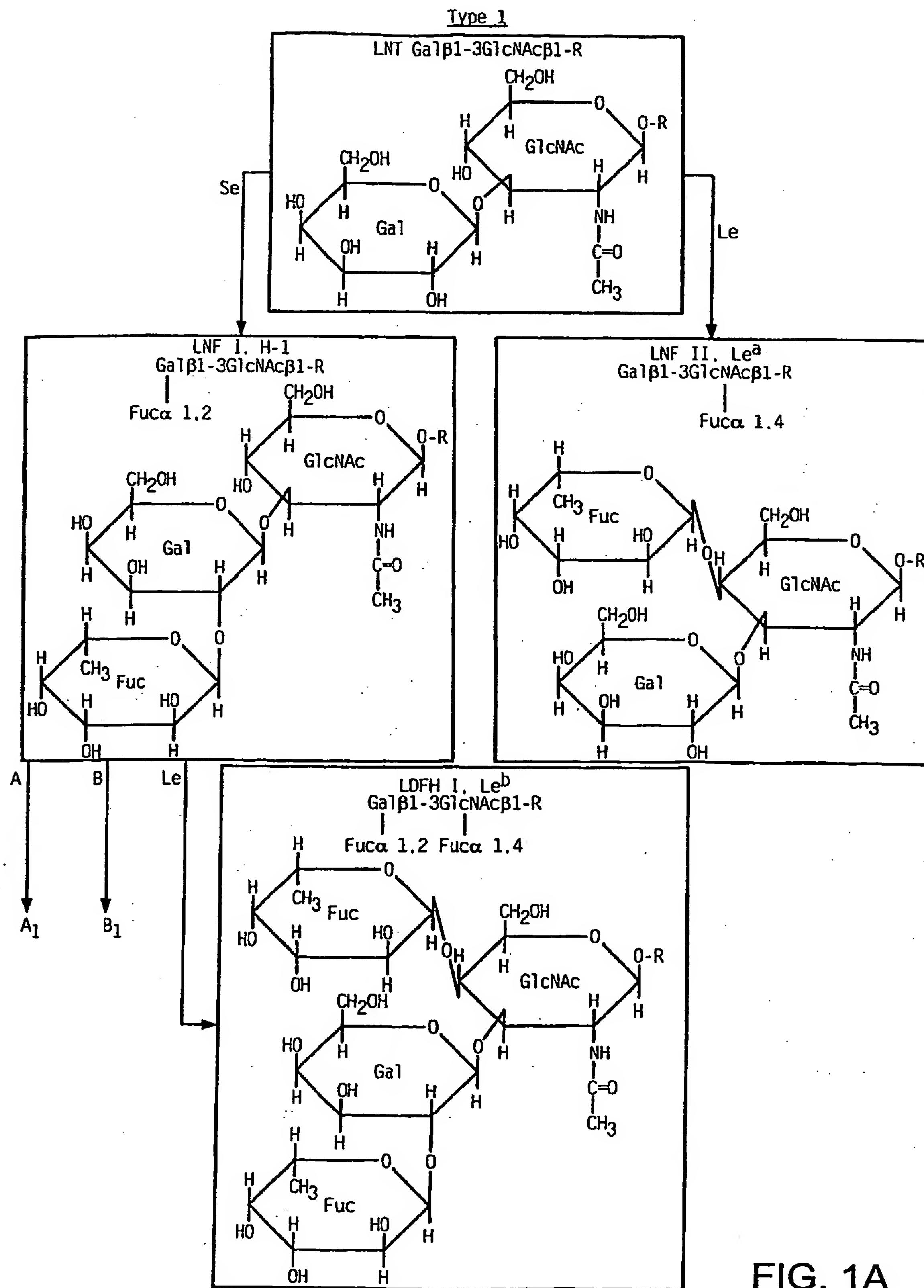


FIG. 1A

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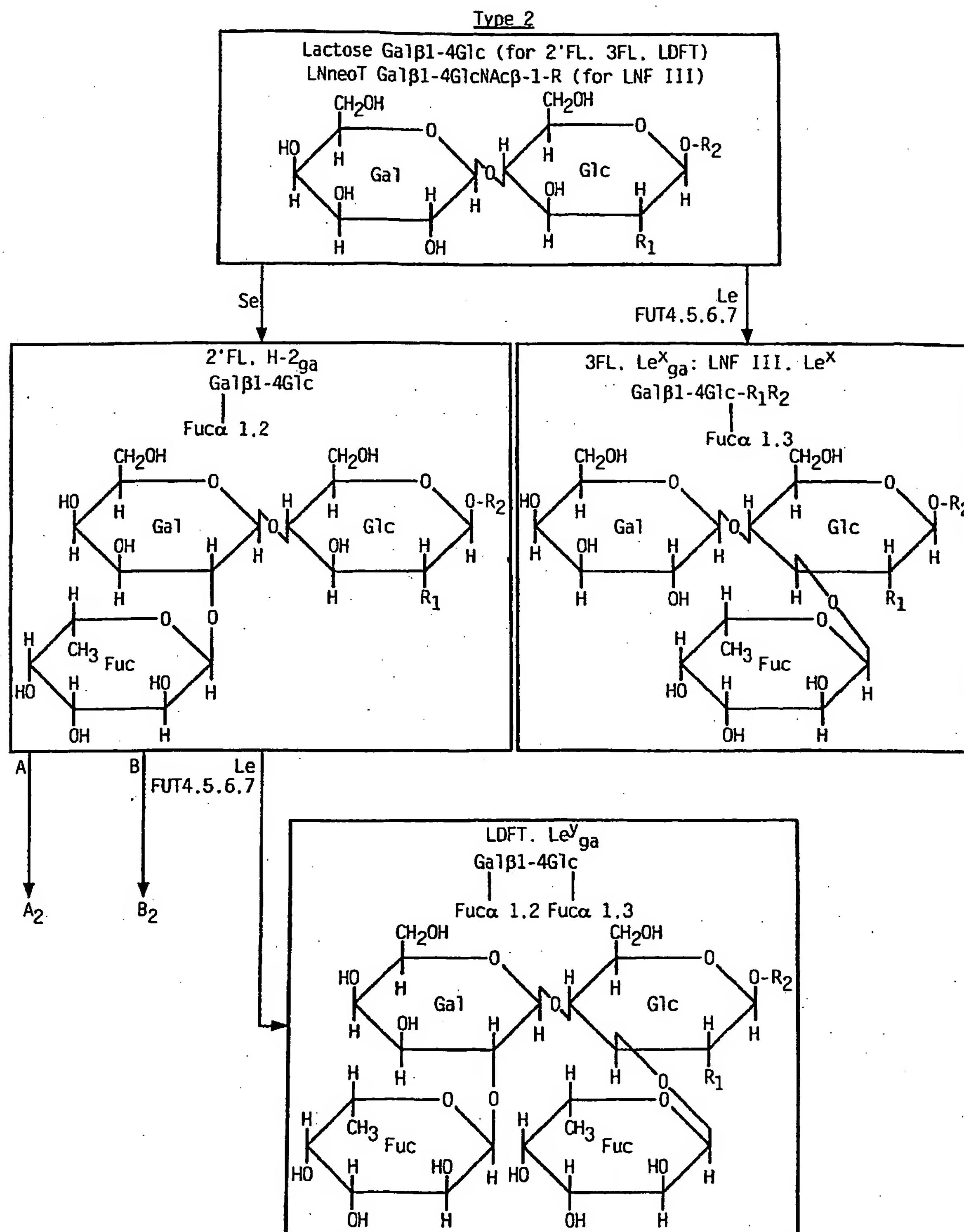
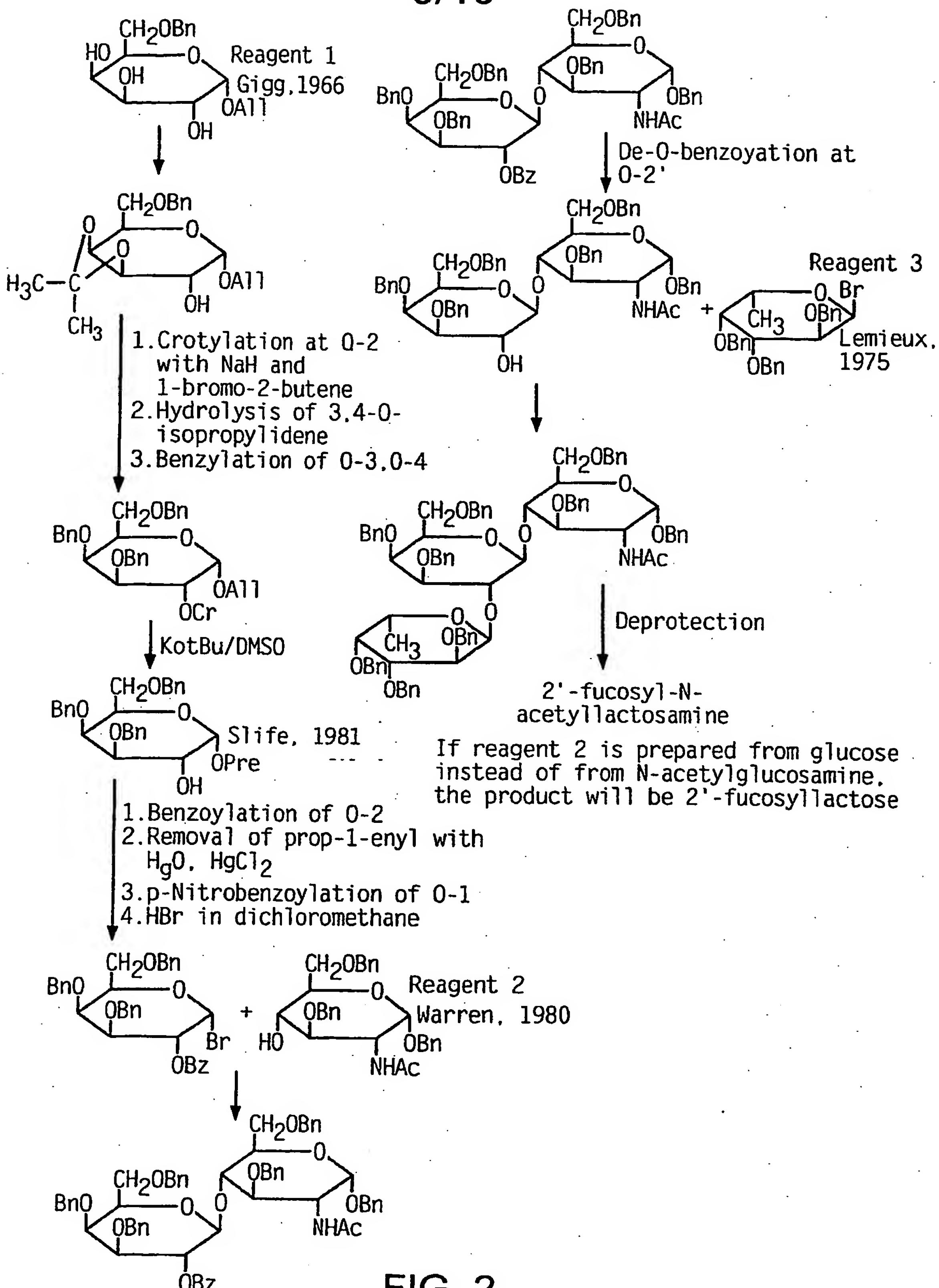


FIG. 1B

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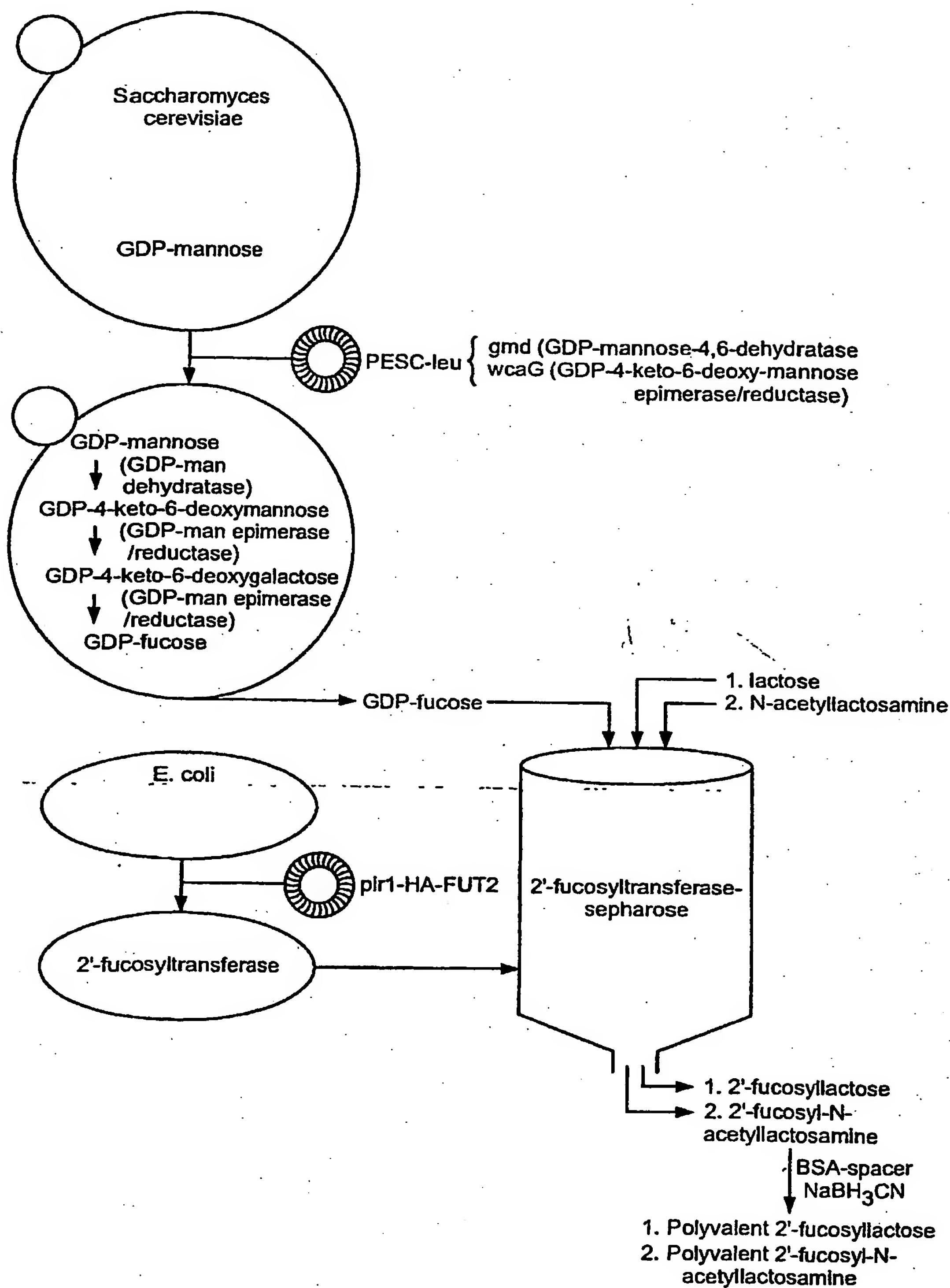


FIG. 3

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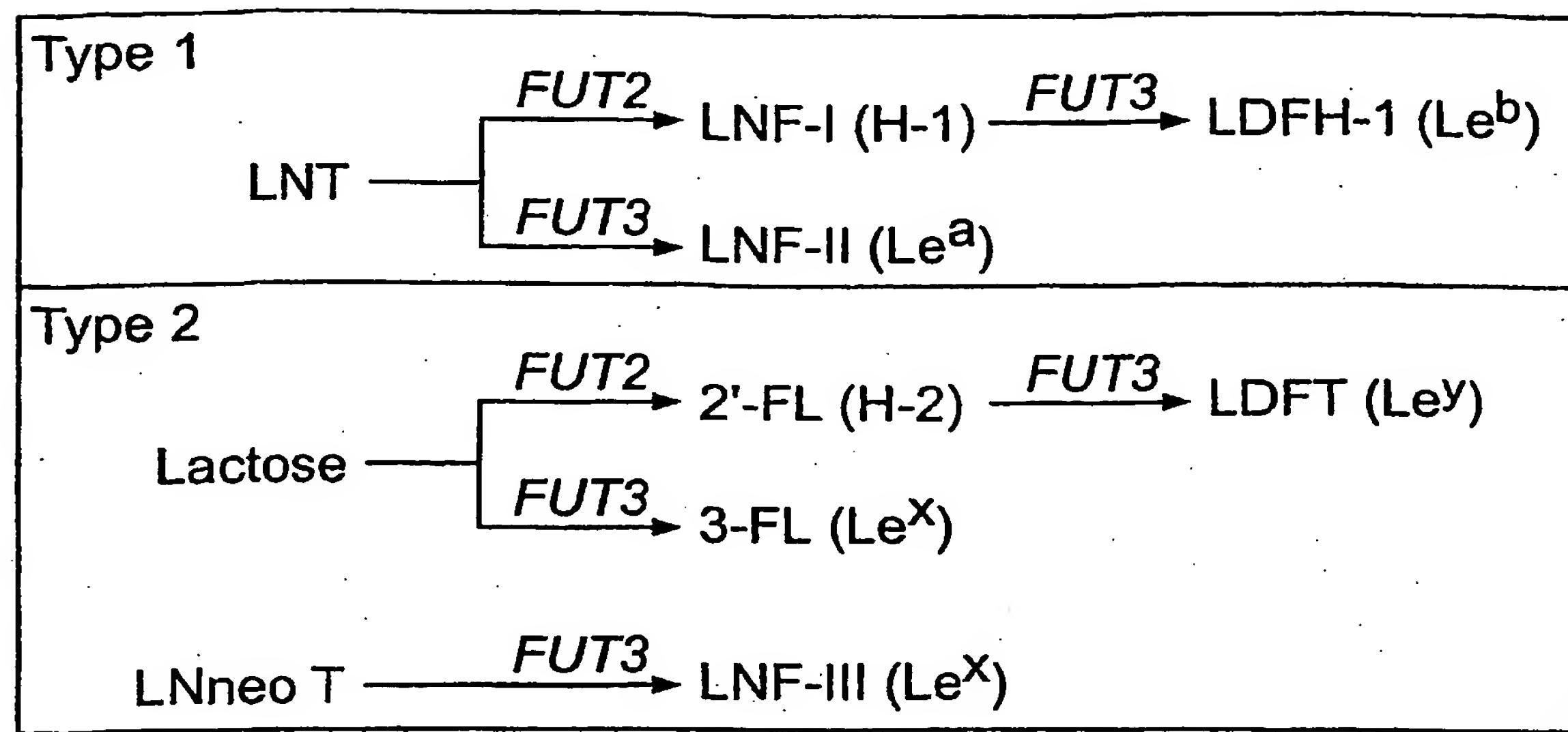


FIG. 4

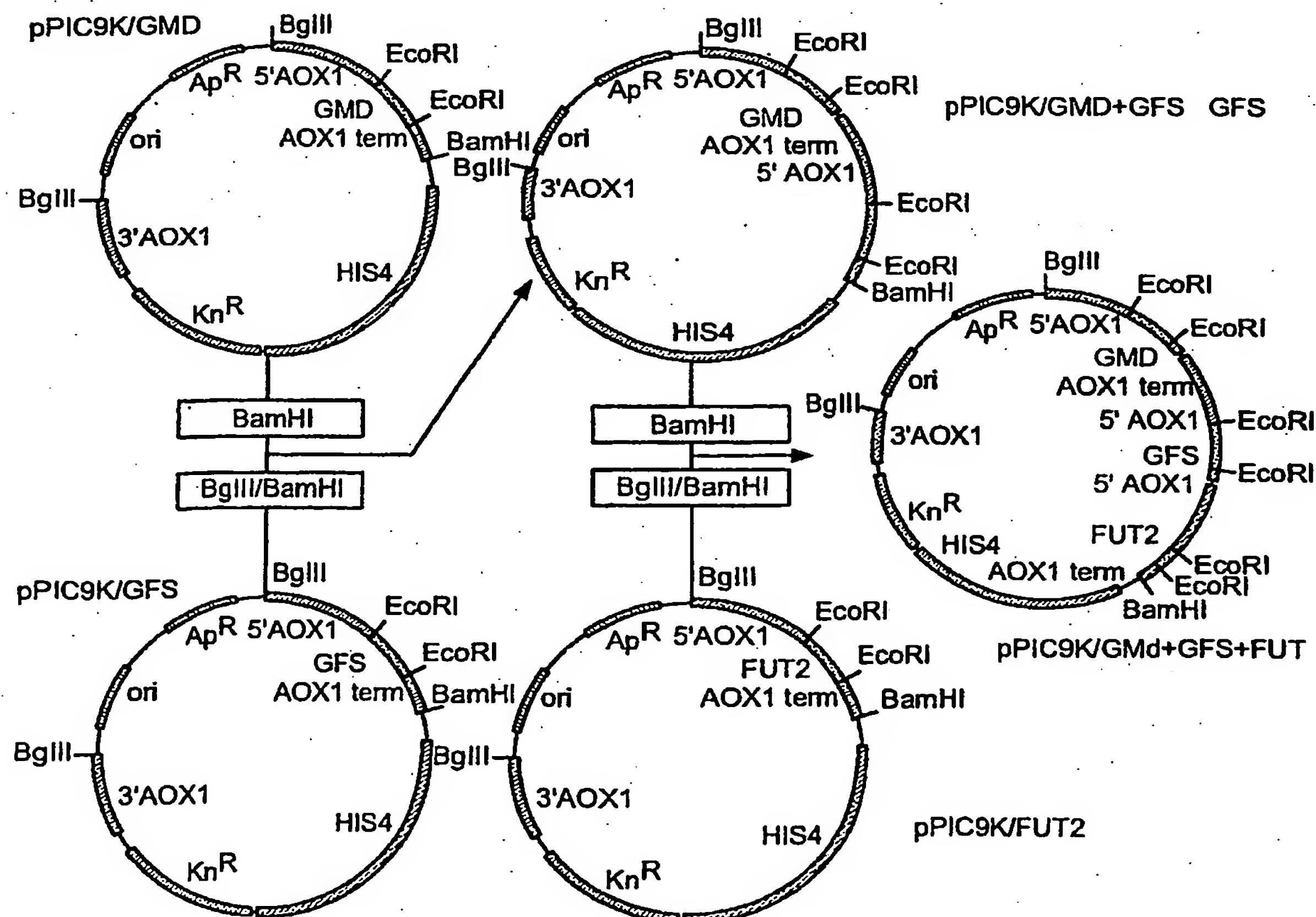


FIG. 5

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## Campylobacter Diarrhea

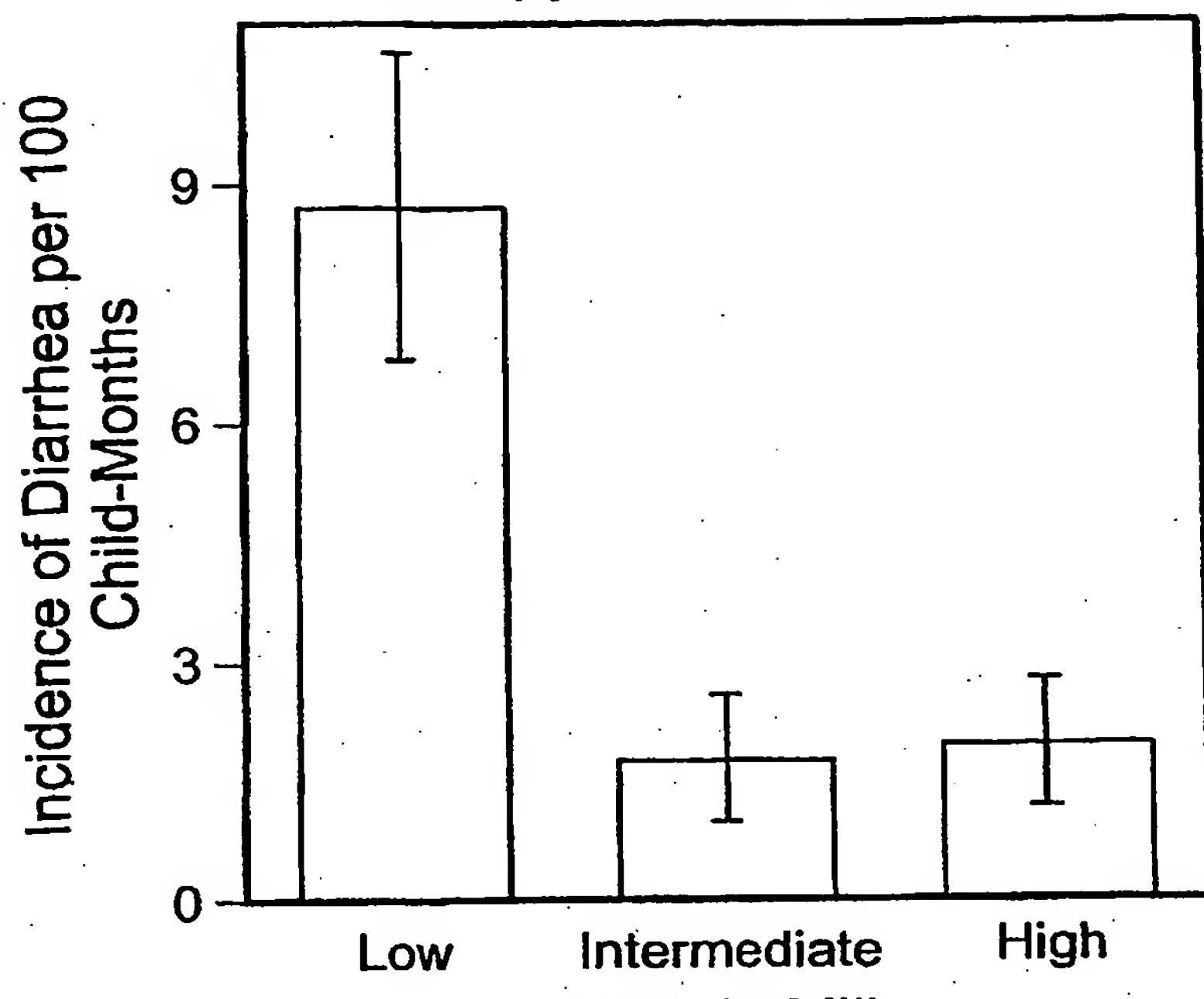


FIG. 6A

## Calicivirus Diarrhea

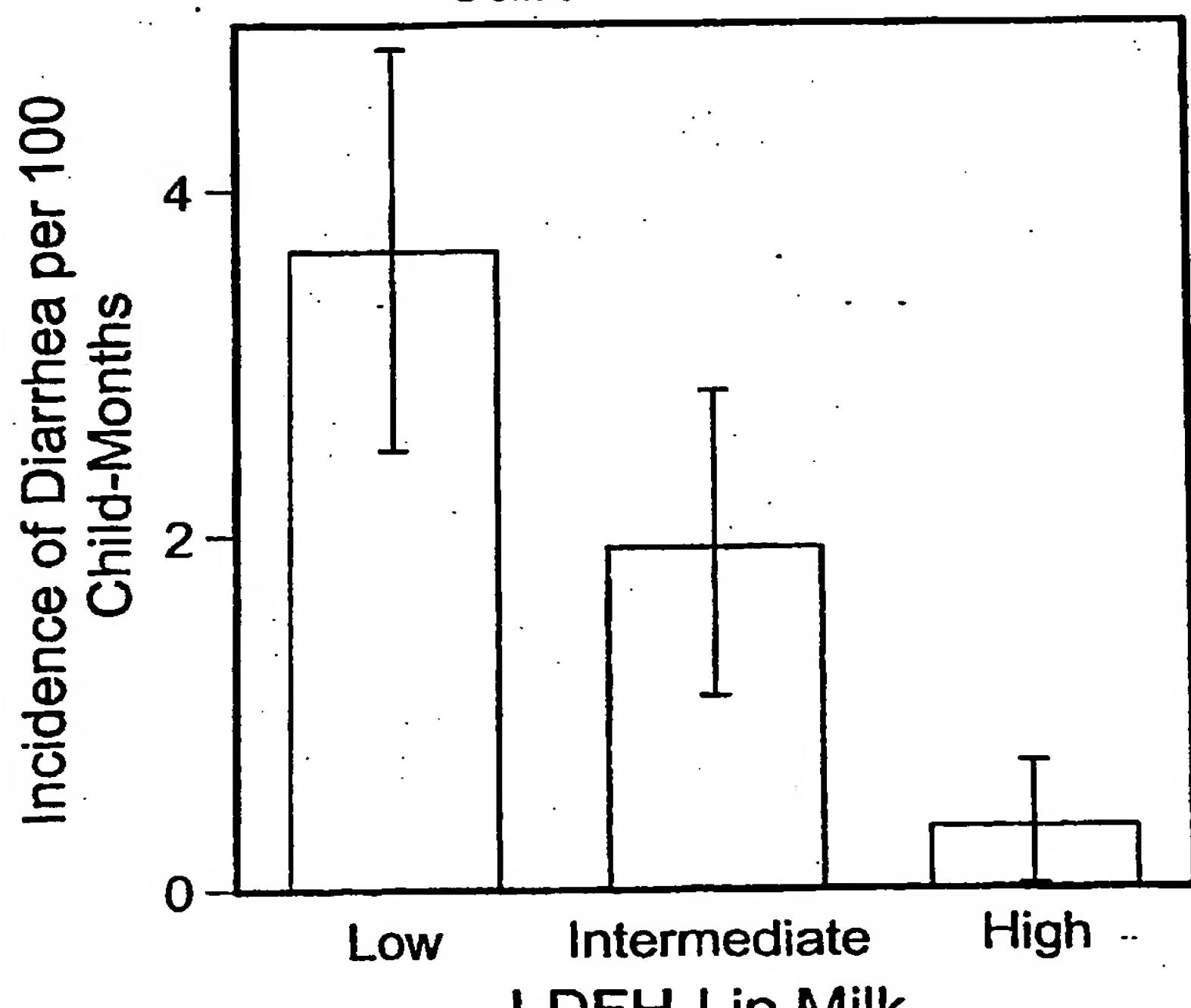


FIG. 6B

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## Moderate-to-Severe Diarrhea

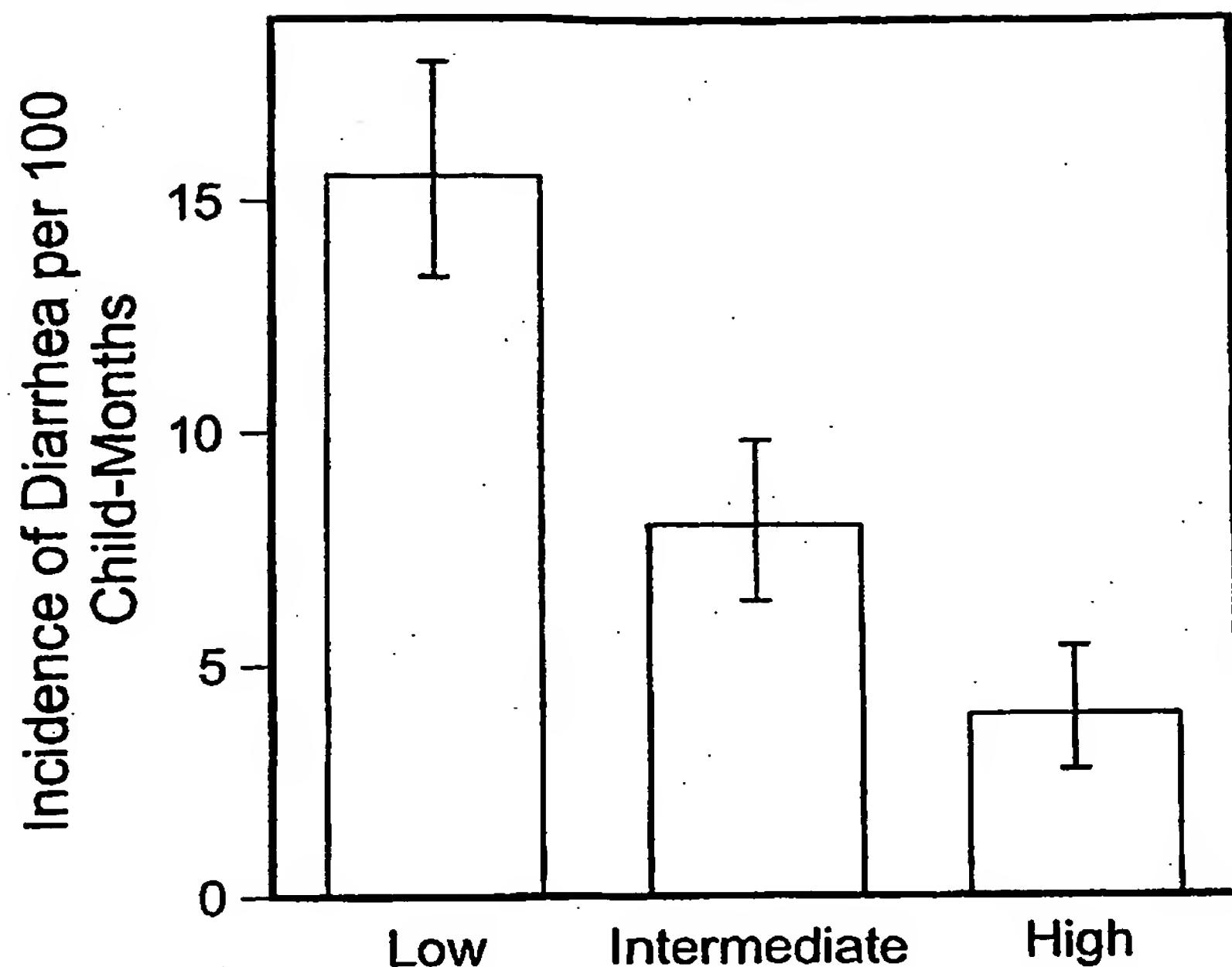


FIG. 6C

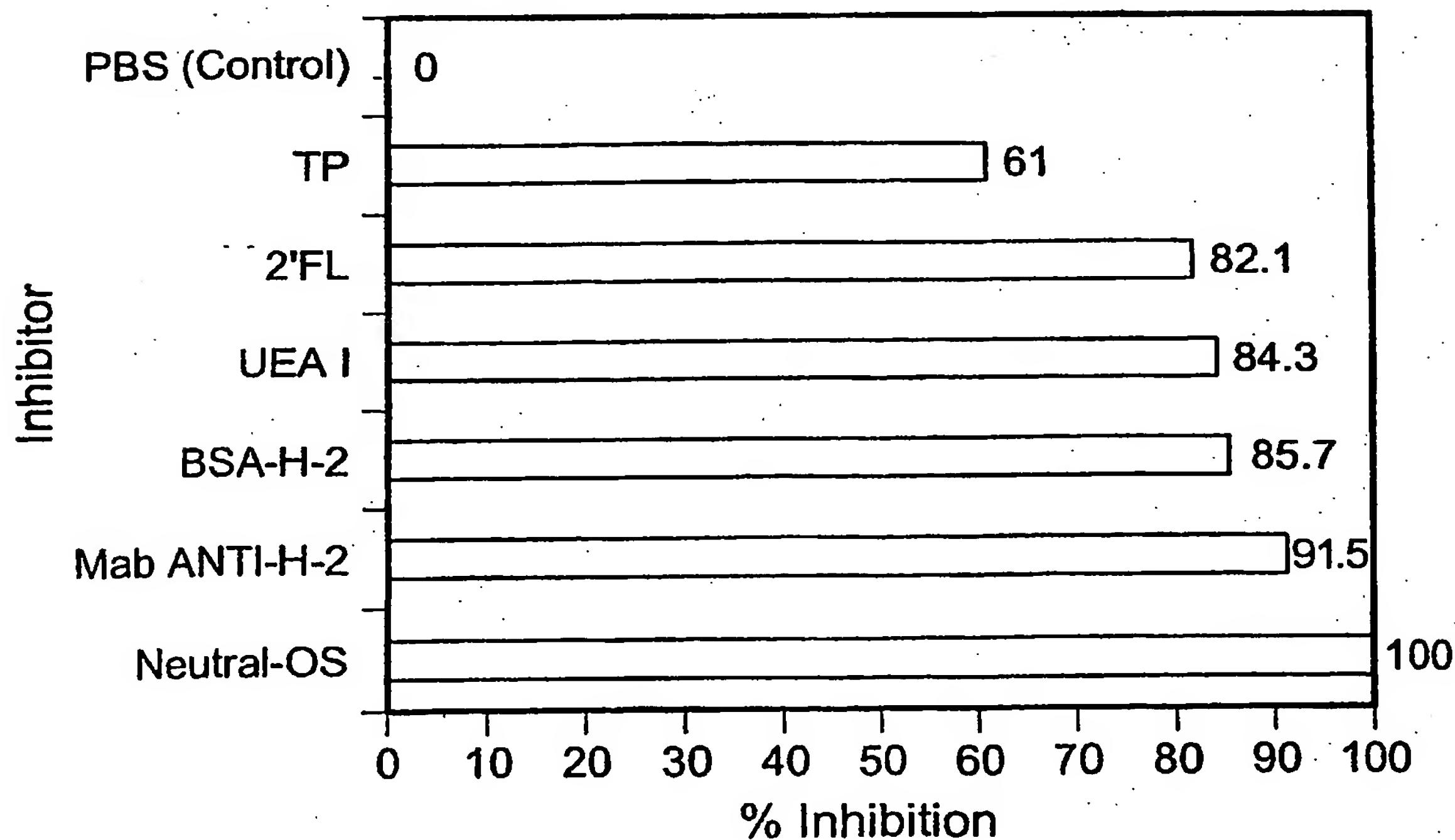


FIG. 7

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| Cells                                 | Pathogenic |           |          |           |          | Non Pathogenic |          |
|---------------------------------------|------------|-----------|----------|-----------|----------|----------------|----------|
|                                       | UEA 1      | INN 287IP | INN 84SP | INN 166IP | INN 10SP | INN 50SP       | INN 57SP |
| FUT1 ( $\alpha$ 1,2)                  | 3+         | 2+        | 2+       | 1+        | 2+       | 0              | 0        |
| FUT3 ( $\alpha$ 1,3)                  | 0          | 0         | 0        | 0         | 0        | 0              | 0        |
| FUT4 ( $\alpha$ 1,3 and $\alpha$ 1,4) | 0          | 0         | 0        | 0         | 0        | 0              | 0        |
| Parental CHO                          | 0          | 0         | 0        | 0         | 0        | 0              | 0        |

FIG. 8

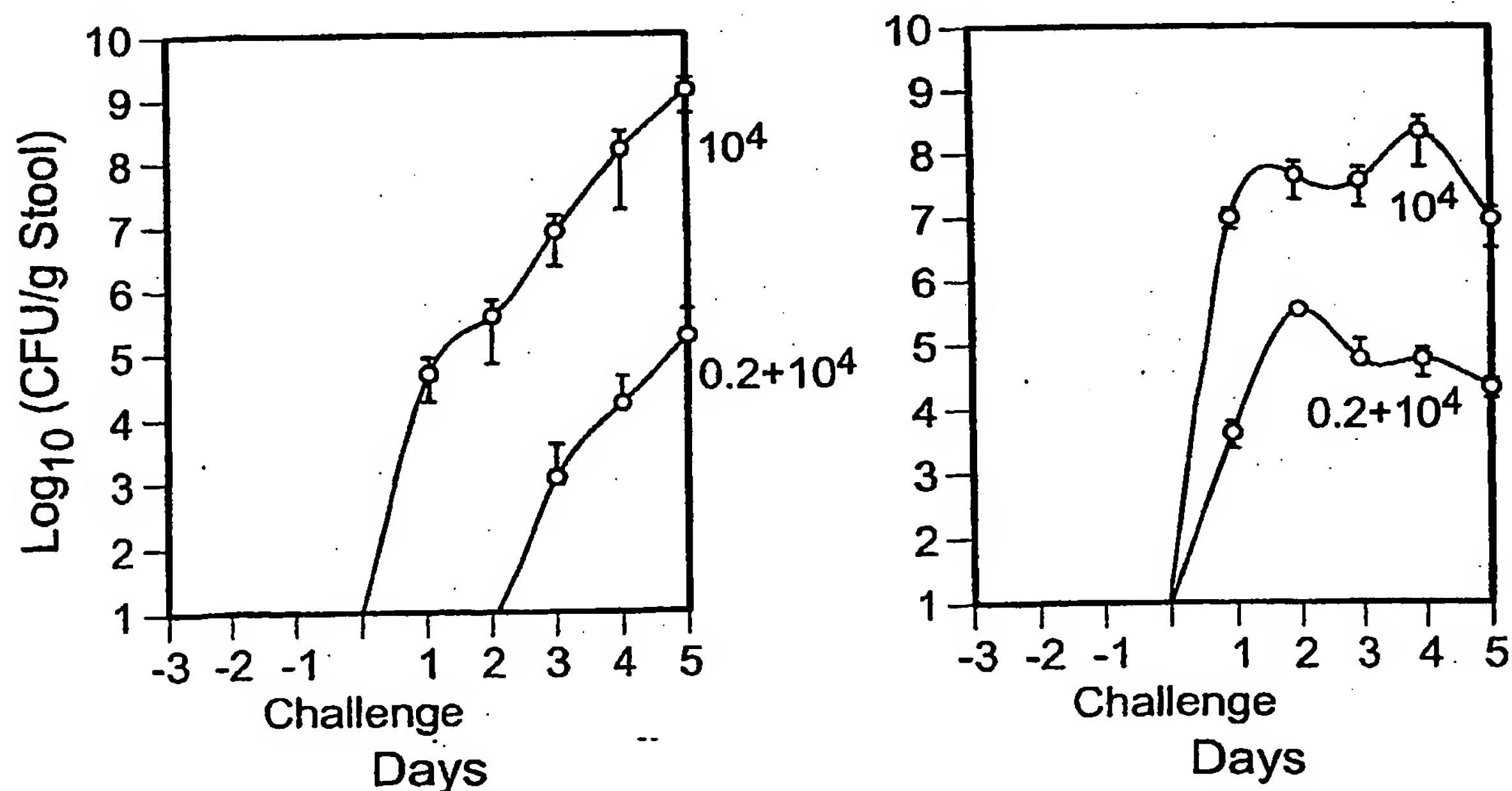


FIG. 9A

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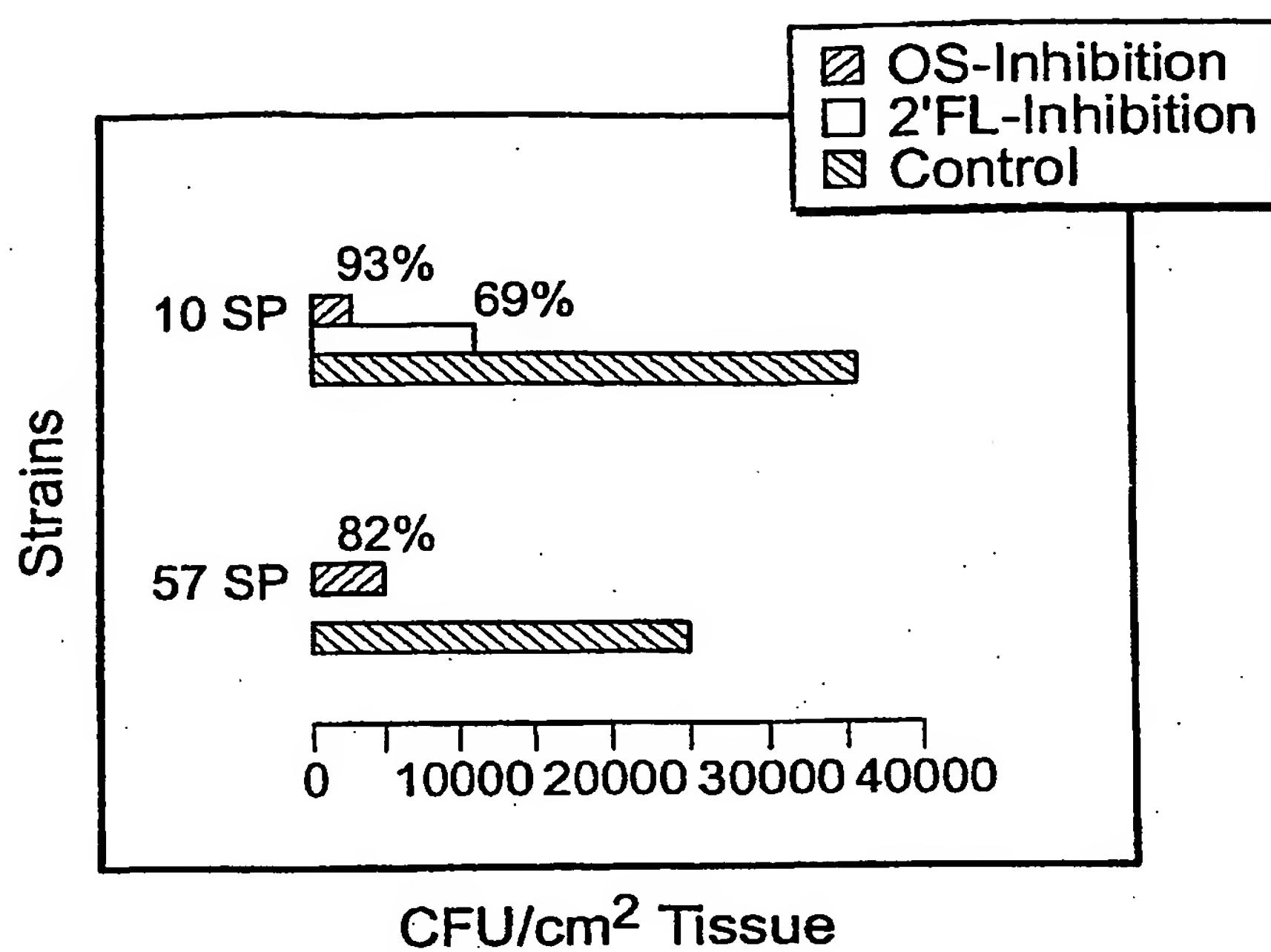


FIG. 9B

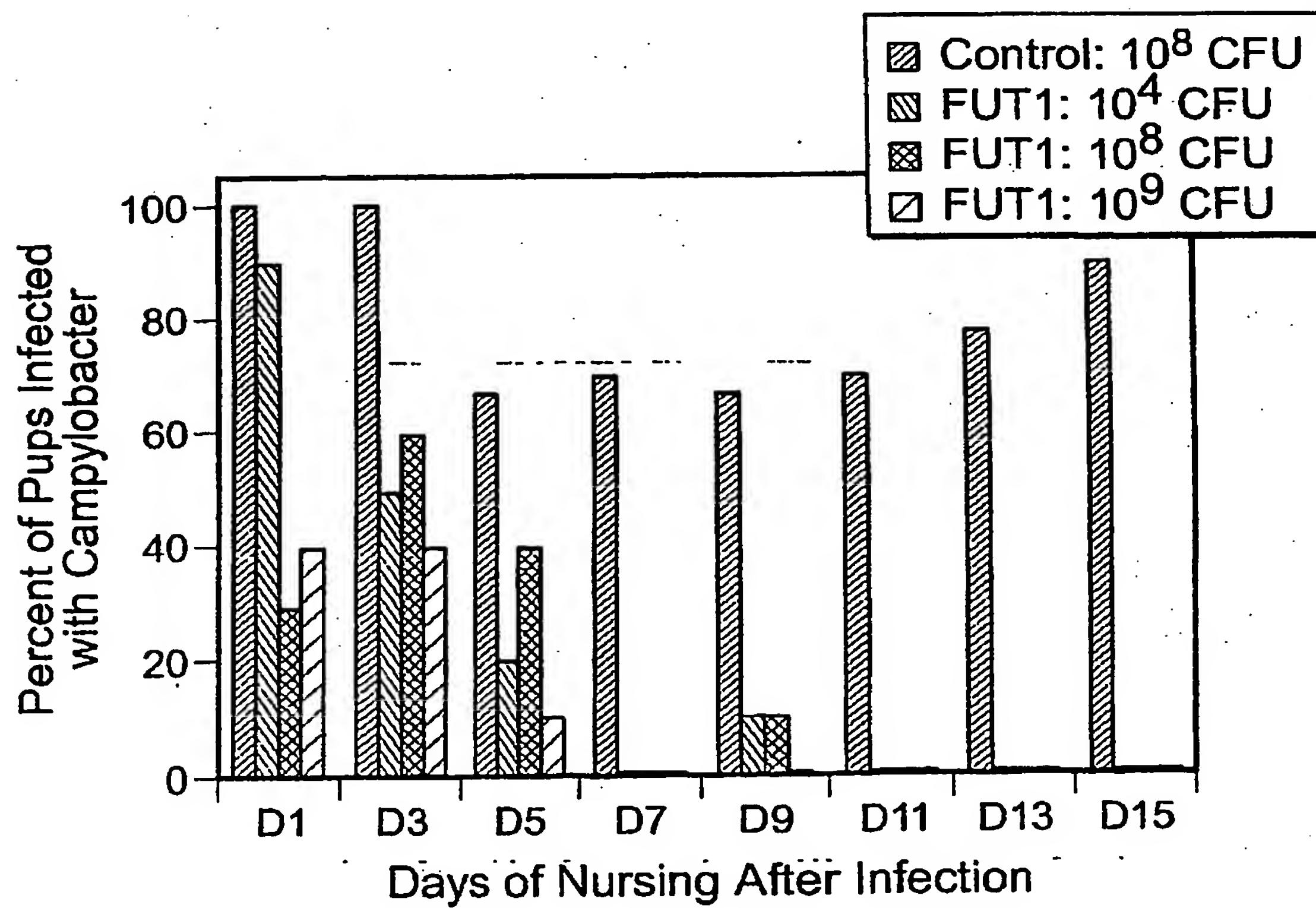


FIG. 10A

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| Days After Infection            | Transgenic (FUT1) |                  |                  | Non-Transgenic           |
|---------------------------------|-------------------|------------------|------------------|--------------------------|
|                                 | x10 <sup>4</sup>  | x10 <sup>8</sup> | x10 <sup>9</sup> | Control x10 <sup>8</sup> |
| Campylobacter Inoculum (CFU/ml) |                   |                  |                  |                          |
| 1                               | 40                | 30               | 90               | 100                      |
| 3                               | 40                | 60               | 50               | 100                      |
| 5                               | 10                | 40               | 20               | 67                       |
| 7                               | 0                 | 0                | 0                | 70                       |
| 9                               | 0                 | 10               | 20               | 67                       |
| 11                              | 0                 | 0                | 0                | 70                       |
| 13                              | 0                 | 0                | 0                | 78                       |
| 15                              | 0                 | 0                | 0                | 88                       |

FIG. 10B